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A STUDY TO DEVELOP

A MODEL FOR AN IMPLEMENTABLE
HEALTH PROMOTION PROGRAM FOR
THE UNITED STATES CORPS OF CADETS
AT
THE UNITED STATES MILITARY ACADEMY
AT
WEST POINT, NEW YORK

A Graduate Research Project
Submitted to the Faculty of
Baylor University
In Partial Fulfillment of the
Requirements for the Degree

Master of Health Administration

of

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Captain Gordon A. Lewis, Medical Service Corps
1 November 1988

"Each patient (each person) carries his own doctor inside him. They come to us knowing that truth. We give the doctor who resides within each patient a chance to go to work".

--Dr. Albert Schwieitzer



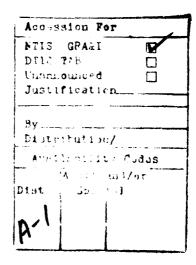




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ACKNOWLEDGEMENTS

The residency year brought with it some firsts in my life:

- a. My first daughter, Noel Maureen, who was born at home,
- b. My first son, Sean, completed first grade using home school.
 - c. I had my first Communion,
- d. my first gray hair (along with my continuing receding hairline.) grew in,
- e. my first real, introspective thinking on how fallible we are and how important our parents are to us,
- f. my first opportunity to be an Acting Deputy Commander for Administration, and,

g. The promise of my first 67A job at the completion of the U.S. Army/ Baylor University program.

During the year I also realized that there are many things to be thankful for:

- a. I am thankful for my first daughter.
- b. I am thankful for being afforded the opportunity, during the residency year, to truly experience the many challenges of command. I was able to view first-hand the trials and tribulations of command because of the support of the Command group at Keller Army Community Hospital. I feel I benefited from their open and frank discussions about every issue.
- c. I am thankful for the support and teamwork of the MEDDAC family and their caring attitude throughout this residency year. (Did I mention the gray hair?!)

Although there are so many people who have made this year one that will be remembered as both challenging and rewarding, there are some people who I

own a special debt of gratitude.

First, Colonel Wolcott, who sets the tone and direction at the hospital with his thought-provoking ideas and concepts and his willingness to encourage risk-taking and innovation, has been extremely open with me and epitomizes what a Commander should be.

I will be ever-grateful to Lieutenant Colonel
Stevens for creating a special bond between the
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included attending Cornell University and The Hastings
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He gave me the latitude to adjust my residency, the motivation to complete this graduate thesis, his patience and helping hand when I was faltering, and shared his experiences which I truly value.

Additionally, he set high standards and expectations and challenged me on my opinions while at the same time listening to my opinion. His Socratic questions guided my thinking. And finally, he gave me the opportunity to become reacquainted with my family.

I am also grateful for the kind and continued support of the Baylor faculty in San Antonio. They were always willing to listen to my frustrations and were especially supportive of me while I worked through the thoughts I had when I heard my father had terminal lung cancer.

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And finally to my sons, Sean and Eric, my daughter Noel (did I mention her yet?!), and my darling wife Maureen. Without their love, support, and patience I would never have been able to complete this two year course of study, culminating in this thesis. Specifically, my children renewed my wonderment with the world and my wife gave me her strength and understanding. She was supportive of me in my role as student, while always maintaining her role as a loving mother to our children and as a loving wife to me.

DEDICATION

This paper is dedicated to my mother and father who gave me strength during a very stressful time of potential sadness.

Throughout my father's bout with lung cancer, (which in fact was ultimately and successfully overcome) they were courageous and optimistic.

Despite the severity of the initial diagnosis, they both took personal actions to improve their health by quitting smoking, taking walks together, and reaffirming their faith in God.

In short, their actions serve as a reminder that there are positive effects to implementing the tenets of health promotion. It is my hope that each one of us may learn something from this.

Captain Gordon A. Lewis
Major Richard Varney
Graduate Research Project

1 November 1988

A STUDY TO DEVELOP A MODEL

FOR AN IMPLEMENTABLE HEALTH PROMOTION PROGRAM

FOR THE UNITED STATES CORPS OF CADETS AT

THE UNITED STATES MILITARY ACADEMY AT

WEST POINT, NEW YORK

I. INTRODUCTION

Overview

In 1979, the United States Surgeon General report, Healthy People, stated that "cardiovascular disease, including both heart disease and stroke" accounted for "roughly half of all deaths" in America, with cancer accounting for "another 20 percent" (vii). These statements are supported in the current literature. As an example, Fielding states that "diseases that take any years to develop and are characterized by a unicity have supplanted infectious diseases as the prime causes of death" (Fielding, 4).

The report also emphasized the fact that since the "roots of many adult chronic diseases, may be

found in early life", then the health of America could be vastly improved via prevention of those risks that are known to be the principal causes of the current morbidity and mortality statistics of the nation (Healthy People, 16).

Prevention is not a new concept. From Ancient Chinese texts to classical Greek writings there are ample references to the linkages of the "concepts of disease prevention and health promotion" (Healthy People, 6). Following World War II, vaccines, antibiotics, surgical techniques, and complex diagnostic technologies were developed. These breakthroughs had a significant impact on the improvement of health. Understandably, based upon these breakthroughs, people placed all their confidence in the medical establishment. However, this "golden age began to fade with the realization that these marvels could not wipe out viral infection, cancer, or heart disease" (Faber, 336). Thus a shift occurred from acute illness to chronic illness. With this shift toward chronic illness it became clear that these chronic conditions were "more amenable to responsible individual interventions" (Faber, 337). In fact, the "growing understanding of the causes and risk factors" for both chronic diseases and adolescent morbidity and mortality has changed many lifestyles. Despite this knowledge, and many of the citizenry

making what are considered positive lifestyle changes (i.e., reducing cholesterol and increasing aerobic exercise), the Surgeon General astutely observed that the ability to deal with problems of health in a preventable manner "depends, in many ways, more on our skills in mobilizing individuals and groups working together in schools and communities, than on the efforts of the health care community" (Healthy People, 7)

A noted health care planner, Henrick Blum supports the Surgeon General's view as Blum sees risk reduction "emanating from two sources". One source, which he calls the micro source, "embraces the efforts made by individuals to so comport themselves as to minimize their exposure to health hazards". second source, or the macro source, encompasses the "efforts made collectively by a society to preclude or minimize the possibility of its members being exposed to health hazards". He believes that "significant risk reduction can only be built upon intermeshing the micro and macro approaches, for each is dependent on the stimulation and actions of the other" (Blum, 19). Blum praised Healthy People for bringing "major macro concerns back to the risk reduction field. Perhaps efforts such as these will restore to risk reduction a meaningful macro as well as micro outlook" (Blum, 29).

Certainly, the intent of any health promotion program is to improve the health of the individual. The World Health Organization defines health as a state of complete physical, mental, and social well-being. Certainly there are other definitions as well. In fact, attempting to create one acceptable definition of health would be an arduous, if not an unattainable, task. Thus, rather than attempting to achieve consensus on a universal definition of health and what health is, current literature emphasizes the need "to define objectives of programs to improve health" (Fielding, 4).

In <u>Promoting Health/Preventing Disease:</u>
Objectives for the Nation, the Surgeon General did
just this by operationally defining a set of
measurable and tangible goals and objectives for the
nation, which, if achieved, would create a healthier
populace. (Indeed, these goals and objectives will be
of value in setting the direction of this study, as
will be discussed later.)

The report found that the leading causes of death among those people ranging from adolescence to early adulthood (ages 15-24) are the result of "accidents and violence" (Healthy People, 16). Again, quoting from Fielding, "auto accidents are the leading cause of death in this country from infancy to early

middle age" (Fielding, 7). Although there have been many messages via public service announcements and, presumably, in the forefront of the public's mind, still "the mind seemed far from the heavy foot, which continued to propel the car in excess of every posted speed" (Fielding, 7). The Surgeon General also recognizes that reducing "the misuse of alcohol and drugs" among 15-24 year old Americans is critical to improving the health of the nation (Healthy People).

Conditions Which Prompted The Study

It seems that every day we hear or see messages urging us not to drink and drive, to reduce our cholesterol, to increase our exercise, or any of a litany of other issues which are all aimed at improving our health and lifestyle. Many of the current members of the United States Corps of Cadets (USCC) will be future officers. As officers they will be expected to set a healthy example and be knowledgeable about their responsibilities in "maintaining the human weapons system" (Wolcott, personal interview, 16 October 1987). Thus, the USMA plays a significant role in preparing these young men and women for their leadership roles, as institutions of higher learning "provide undergraduate students with

the knowledge and, just as importantly, the practical skills necessary to reduce their risks of premature illness and disability" (Hyner and Melby, 265).

A review of the Organization and Functions manual for both the United States Corps of Cadets and the United States Military Academy, found a plethora of activities which potentially support the wellness of the members of the Corps. However, these activities and wellness functions are currently separate and uncoordinated (USMA Regulation 10-1). These facts, coupled with the recent publication of Army Regulation 600-63, Army Health Promotion (which establishes the Army Health Promotion Program) created an interest in developing a program to benefit the United States Corps of Cadets assigned at the United States Military Academy, West Point, New York.

This is of particular concern in an era of constrained resources, as the "directionless wearing down of collective resources by potentially lethal, intersectoral blood-lettings is no longer affordable" (Blum, 34). In fact, a coordinated health promotion program can significantly improve "health risks, health behaviors and attitudes, and the attitudes toward the organization" (Spilman, 289.) Thus, it would appear that health promotion programs can offer

substantial benefits to not only the individual but also to "the organizations that choose to implement such programs" (Spilman, 289). With this in mind, a formal problem statement was developed for this study.

Problem Statement

The problem statement for this study is to develop a model for an implementable health promotion program for the United States Corps of Cadets at the United States Military Academy at West Point, New York.

Objectives

The objectives of this study are:

- 1. To perform a literature review on the topic of wellness programs with emphasis on information related to the collegiate/academic setting. The literature review will be conducted to identify current trends, issues, and related research pertaining to the research problem statement.
- To determine the requirements of the United
 States Army Medical Department Activity

(USAMEDDAC), West Point; United States Army
Health Services Command (HSC); Office of the
Surgeon General (OTSG); Department of the Army
(DA); Department of Defense (DoD) regulations;
and the Joint Commission on the Accreditation of
Healthcare Organizations (JCAHO) standards as
they pertain to health wellness programs.

- 3. To determine which improved technology, such as automation and equipment, would facilitate the implementation of a health wellness program for the United States Corps of Cadets (USCC) at the United States Military Academy (USMA) at West Point, New York.
- 4. To determine the currently available community services at West Point which may be incorporated into a comprehensive health wellness program for the USCC at the USMA.

Criteria

The following criteria will set the standards against which the problem resolution will be evaluated or the results validated:

1. Any requirements and standards for the

proper development of a wellness program as may be prescribed by the JCAHO must be met.

- Requirements and standards for the proper implementation of a wellness program as prescribed by HSC, the OTSG, DA and DoD must be met.
- 3. USAMEDDAC, West Point implementation directive(s), Standing Operating Procedure(s) and guidelines should adhere to the requirement(s) specified by HSC, the OTSG, DA, DoD, and the JCAHO.
- 4. The proposed health promotion program management process model should be acceptable to the post-level Health Promotion Council.
- 5. The JSCC health promotion program management process model must be implementable and not require excessive expenditures of resources (i.e., expanding physical plant).

Assumptions

To realistically pursue this study and implement

its final recommendations, the following assumptions were made:

- That a coordinated, health wellness program for the USCC at the USMA, West Point, New York is desirable.
- 2. That the installation-level Health Promotion Council will support a model for an implementable health wellness program for the USCC at West Point, New York.
- 3. That the USMA Command group will support a plan aimed at implementing a health wellness program at the USMA for members of the USCC.

Limitations

In the pursuit of this study, the following limitations were taken into consideration:

1. The literature review will restrict the analysis of health wellness issues primarily related to the age group attending the USMA and to those programs found in a college setting.

2. The study will restrict the development of a model for an implementable health wellness program to the USCC.

Research Methodology

The research methodology for this study was pursued in three phases:

Phase I--Collection Of Data:

- 1. The in-depth literature search concentrated on the area of health wellness programs already existing in the college arena of likesize institutions of higher learning in the United States. The literature search helped identify current trends in the development and implementation of health wellness programs as well as providing a review of how other college institutions developed such programs.
- 2. All applicable JCAHO, DoD, DA, OTSG, HSC standards and regulations were reviewed.
- 3. Inquiries were sent to national clearinghouse organizations such as the National Insurance Council, that are involved in the

development and implementation of health wellness programs. Pertinent information was used in the study.

- 4. Interviews were developed and conducted by the researcher.
- 5. HSC staff members were interviewed to ascertain their perspectives on health wellness programs with emphasis on the possibility of receiving further guidance from DA or DoD on this issue.
- 6. The collection of any relevant retrospective data included efforts to obtain historical reports concerning health wellness items of interest. Sources for this information consisted of:
- a. Committee minute meetings that may have discussed health wellness items of interest.
- b. Inspector General or JCAHO reports from the past three years.

Phase II--Recording Of Data:

1. Documents, journals and books reviewed were referenced.

2. Responses to interviews were compiled and incorporated into the study, as appropriate.

Phase I--Evaluation of Data:

- 1. This phase consisted of the development of recommendations concerning the proposed model for an implementable health wellness program for the USCC at the USMA. Efforts were made to develop summary and trend information from the data collected.
- and the JCAHO were critically analyzed to develop a management process model for an implementable health promotion program that would adhere to existing quidance. Efforts were made to develop summary and trend information from the data collected.
- 3. Based upon the evaluation, a working model was presented to the USMA Health Promotion Council for review and implementation.

II. DISCUSSION

Overview of Objectives

It is appropriate before continuing, to briefly discuss each of the four established objectives mentioned in Chapter One. Objectives one and two served to establish an informational baseline regarding health promotion programs. Emphasis was placed on performing a thorough literature review that gathered data and information on health promotion programs, with particular emphasis on programs unique to the academic setting. The literature review was a vital component of this thesis, as it established a solid foundation upon which to build. Overall the researcher found the basic tenents of health promotion to emphasize such elements as physical fitness, nutrition, stress management, etc. for all age groups. Concomitantly, there are significant specific differences in how the tenents of health promotion manifest themselves in, and affect, different age groups. The intent of the research effort was to focus on the 17-25 year old age group. The results and findings of the literature review are used throughout the paper.

Likewise, an exhaustive research effort was undertaken to determine the requirements of various

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military organizations as well as the JCAHO, as they pertain to health wellness programs. On 11 March 1986, by DoD Directive 1010.10, a health promotion policy was established throughout DoD to improve and maintain "military readiness and the quality of life" of DoD personnel (Commander' Guide, 2). The DoD guidelines set priorities on health promotion, identified six areas of concern, (Antitobacco use, stress management, hypertension, nutrition, physical conditioning, and substance abuse.) and directed each service to develop a health promotion program.

Based on the directive from DoD, the Army created a regulation that prescribes policy, responsibilities, and procedures for the Army health promotion program. This regulation, AR 600-63, titled The Army Health Promotion Program, became effective 17 December 1987. This regulation outlines the responsibilities of various organizations throughout the Army to include, but not limited to, the Surgeon General, major Army commands, installation Commanders, and MEDDAC/MEDCEN Commanders. AR 600-63 also establishes a health promotion program which integrates currently existing health programs, prescribes policies for each health promotion program area, establishes and describes the mission of a Health Promotion Council (HPC), and provides guidance for smoking cessation as well as establishing the Army

Suicide Prevention Program.

Under the provisions of this regulation, the Army Surgeon General

- Develops policies for all medical,
 dental, psychological, physiological, and health
 areas;
- 2. Has Army staff responsibility for stress management;
- 3. Acts as DoD executive agent for nutrition policy, standards, and education programs;
- 4. Appoints a representative to DoD Health Promotion Coordinating Committee;
- 5. Plans, implements, and evaluates an automated health risk appraisal with procedures for administration and for processing and compiling the data at HQDA, MACOM, installation or community and unit levels; and
- 6. Assures that Army Medical Departments provide equipment and health care providers to administer and interpret the health risk

appraisal, teach classes, and compile statistics to support the health promotion program.

Health Services Command, recognizing that "health promotion programs can produce tangible benefits and improve the quality of life for HSC personnel" created a regulation regarding health promotion (HSC regulation 40-27, 1). The regulation stipulates that each MEDDAC/MEDCEN create a Health Promotion Committee designed to coordinate internal MEDDAC/MEDCEN health promotion functions. This committee must plan and coordinate the AMEDD input to the installation Health Promotion Council (HPC), assist with health education classes, and provide medical intervention in support of the health promotion program.

Based upon the HSC regulation, the West Point MEDDAC has the responsibility to act as a focal point for health education activities, with the Commander serving as the principle advisor to the installation HPC. In addition, the MEDDAC Commander is required to appoint a Fitness Facilitator "capable of coordinating resources of the MEDDAC to support the goals and objectives of the HPC" (HSC regulation 40-27, 2).

In short, the U.S. Army has taken strides to create a structure for a health promotion program. In The United States Army Posture Statement FY 89,

General Carl E. Vuono, U.S. Army Chief of Staff and John O. Marsh Jr., Secretary of the Army stated;

"The goal of the Army Health Promotion

Program is to improve personnel readiness,
productivity, and morale by promoting
a healthier lifestyle for members of the

Total Army. The program coordinates
health efforts in the areas of physical
conditioning, weight control, nutrition,
tobacco use, stress management, drug and
alcohol abuse, and suicide prevention"

(20).

The JCAHO remains silent on health promotion programs per se. It must be emphasized, however, that the JCAHO standards apply to any health promotion program's medical component. For instance, a blood sample must be drawn to determine the cholesterol level of the patient. Once this level is determined it is used as part of a health risk assessment of the patient. In other words, when this blood sample is drawn, the same standards of care apply to the drawing of the blood (i.e., infection control standards) as would apply to any other outpatient and hospital-based ambulatory care procedure.

The third objective of the research was to

determine which improved technology would facilitate the implementation of a health promotion program for the USCC. As will be seen later in this paper, the application of automated data processing and a computer communications network are also addressed.

The final objective was to determine the currently available community services at West Point which could be incorporated into a health wellness program. This was accomplished by gathering pertinent information regarding the community services at the USMA and within the USCC. This information was gathered primarily by using the USMA Organization and Functions manual as the source document. Based upon this research and analysis, matrices were developed by the researcher. The intent of these matrices was to highlight how various community services and activities at the USMA (and within the USCC) may be useful in providing support or services to the post HPC and specifically to the USCC. These matrices may be found at Appendix A and B and will be discussed in far greater detail later in this paper.

In short, the purpose of this discussion has been to provide a general overview of the established objectives of the study. It became clear once information was collected that common ground existed between academic settings and the established

guidelines for the military. Conversely, the differences between the two settings became evident as well. Thus, it is my intent to note these similarities and differences and integrate this information throughout this chapter and the chapter that follows.

Models

According to the American Educator's

Encyclopedia, models help "to identify and illustrate how the components of a particular system, theory or concept are interrelated" and do not "constitute a theory or concept; rather, they are used to reinforce the more extensive narrative description".

The literature shows that there are a number of potential models that could apply to health promotion programs. This plethora of information was helpful in developing a model for an implementable program at the United States Military Academy (USMA) for the United States Corps of Cadets (USCC). In establishing an initial frame of reference, it is worthwhile and appropriate to provide some background information pertinent to the issue at hand.

A model which specifically applies to health was developed by Blum and is provided at figure 1. This reknowned health planner views the inputs to health as

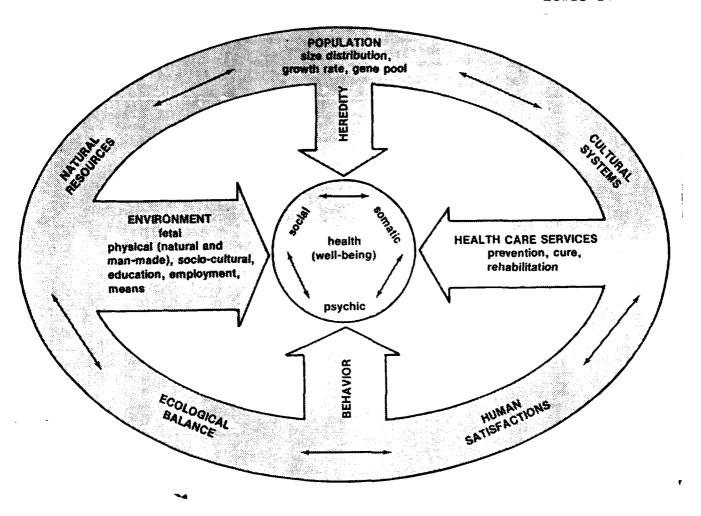


Fig 1. Inputs to Health from Hendrick Blum, <u>Planning for Health</u>, (New York: Human Sciences Press, 1974) 8.

Environment, Behavior, Health Care Services, and Heredity. Note that the width of each of the arrows as depicted in this model, represents the relative importance of each of these inputs to health. By connecting the arrows with the outer loop, Blum graphically shows the interactions these inputs have, both individually and collectively, as they impinge upon the individual.

The health outcome in Blum's view, has three components (the Psychological, Sociological, and Somatic). Blum's Inputs to Health model emphasizes the influence that the individual and the environment have in creating well being. In other words, Blum's micro and macro view (as stated in Chapter One) interact with each other creating an outcome that he sees as "health". Thus, there exists a potentially positive synergism resulting in improved well-being.

This conceptualization is supported by others.

Writing in Megatrends, Naisbitt sees what he terms a

"new health paradigm". He states that this new
paradigm is a shift away from institutionally held
health care and a shift toward the individual's
accepting "personal responsibility for their health"

(Naisbitt, 23). Relatedly, Behrens and Longe state
that the health of children is affected by a variety
of factors. These factors include the "traditional
measures of health (such as heredity, health of family

members, and peers, race, mother's level of prenatal care), socioeconomic circumstances, and of course, the individual's own lifestyle habits". They go on to state hereditary factors and socioeconomic factors are beyond the control of youth but "individual behaviors that contribute to good health can be controlled" (9). In short, Blum's model is supported by the research of others and serves to emphasize the importance of the individual.

A model highlighting the elements of the Army Health Promotion Program can be seen in figure 2. The model addresses various areas of interest generally considered components for improving one's health and well being (i.e., Physical Conditioning, Nutrition and Weight Control, etc.). Further the figure shows three incremental levels of a health promotion program, with level one representing the minimal requirements for each stated component to level three representing the most aggressive level of achieving each stated component. This approach is similar to the methodology used by The Surgeon General in Objectives for the Nation and Healthy People in that it establishes goals and objectives, albeit in a different format.

With this background on model development, let us turn to the Army Health Promotion Program in more detail.

Modules	Level 1 Program	Level 2 Program	Level 3 Program
Commander's Guide	Introductory chapter Strategies for program management and resources	Same as Level 1	Same as Level 1
Marketing	Unit briefings Post media Community needs assessment Posters, siides, videotapes Incentives: — Personal recognition certificates — Awards Evaluation Strategles	Levet 1 plus: Guest speakers Promotional items	Level 2 plus: Public relations campaigns Support groups Intramural competitions
Individual Assessment	Automated Health Risk Appraisal Health Risk Review Session	Same as Level 1	Same as Level 1
Physical Conditioning*	Community/unit based programs or include aerobic and strength development classes AR 350-15 Guidance National Fitness Month	Level 1*plus: Individualized prescription based on fitness evaluation	Same as Level 2
Nutrition and Weight Control	Pamphlets/posters brochures Media bitz for dining hait: menus National Nutrition Month AR 600-9 Guidance	Level 1 plus: Group classes Videotapes Sildes/Cassette tapes	Level 2 plus: Nutritional Assessment Individualized diet plans Computerized nutritional analysis Cooking classes
Procedures Guide	Pamphlets/ Brochures/Posters Command Brieflings (at least monthity) Incentive/Sustain- ment Program	Unit Training Schedules which reflect health promo- tion education classes in all areas needed	Unit Days for: Health Alsk Assesment Family Health Promotion Activities
Antitobacco	Pamphlets/ brochures Media bility advice for smokers and non- smokers National Smokeout AR 1-8 Guidance	Level 1 plus: Group cessation programs Videotapes Radio/TV spots	Level 2 plus: Computerized cessation program Support group
Stress Management	Pamphiets/brochures Posters Welcome Packets with resources within the community Sponsorship Program associated with PCSs	Level 1 plus: Group classes Videotapes Radio/TV spots Commanders session's Unit training Community Skill/Activity Classes	Level 2 plus: Individual treatment programs conducted at Medical Treatment Facility
Hypertension Management	Pamphlets/brochures Unit level Monitoring National High Blood Pressure Month (May) Periodic B.P. checks/follow-ups	Lavel 1 plus: Group classes Videotapes TV, radio spots	Level 2 plus: Individual counseling
Substance Abuse Prevention	Pamphlets/brochure\$ Posters Group meetings and classes AR 600-85 Guidance	-Level 1 plus: Videotapes	Level 2 plus: Individual counseling Support groups
Spiritual Fitness	Pamphlets/brochures Posters Opportunities to meditate, pray, or worship AR 165-20	Level 1 plus: Group meetings classes Developmental activities	Level 2 plus: Individual counseling Referral agencie Values building resources Support groups
Dental Health	Pamphlets/brochures National Children's Dental Health Month Periodic Cental Examinations Unit Level Dental Fitness Classifica- tion Monitoring	Classes Videotapes Radio/TV spots Skills Classes	Individual Oral Hygrene Counseling Definitive Dental Treatment Long Term Follow-Up

Fig 2. Suggested Elements for Level 1-2-3 Fit-to-Win Programs from United States, Department of the Army, Fit-To-Win Commander's Guide, (Washington: GPO, 1987) 8-9.

The Army Health Promotion Program

As an introduction to the Army Health Promotion Program, it is appropriate to state the program elements, goals, objectives, and applicability before continuing. The goal of the program is to "maximize readiness, combat efficiency and work performance" (Army Health Promotion Program, 3).

The ten program elements may be found in figure 3. These elements are generally understood to be worthwhile areas of interest throughout one's life. In fact these elements are designed to meet the program's stated objectives of enhancing "the quality of life" for the Total Army Family and to encourage lifestyles that "improve and protect physical, emotional and spiritual health" (Army Health Promotion Program, 3).

However, it should be noted that, according to Mr. Joseph Farlow, Health Services Command, the Total Army Family does not apply to cadets. An investigation into the matter indicated the Total Army Family encompassed "all soldiers, Army civilians, family members, and retirees". In short, this definition fails to specifically mention cadets. However, in paragraph 3-5, AR 600-63, when discussing the use of the Health Risk Appraisal, the regulation states that the "unit commander will ensure all

ARMY PROGRAM ELEMENTS IN HEALTH PROMOTION

Physical Fitness

Nutrition

Weight Control

Alcohol and Drug Abuse Prevention and Control Program

Antitobacco

Suicide Prevention

Spiritual Fitness

Hypertension

Stress Management

Oral Health

Fig 3. Army Program Elements in Health Promotion from United States. Dept. of the Army. The Adjutant General, The Army Health Promotion Program, (Washington: GPO, 1987) 7. personnel in their command are evaluated" (AR 600-63, 8). This will be interpreted, for the purposes of this paper, to include the USCC since the company tactical officers are considered in command of their cadet company (as stipulated by Title 10, Section 4349, U. S. Code).

Finally, the regulation establishes a Health Promotion Council (HPC) and provides a model for the development of an Installation Health Promotion Program (See figure 4). Albeit, the development of an Installation Health Promotion Program, per se, is beyond the scope of this paper, the planning elements evident in this figure are equally applicable to the development of a model for an implementable health promotion program for the USCC. Appropriately, then, the researcher designed a health promotion program management process model (shown in figure 5) highlighting (1) the identification of community needs, (2) the establishment of guidelines for developing a health promotion program, (3) implementation instructions, and (4) emphasizing an evaluation phase.

Generally speaking the model in figure 5 notes a cyclical four stage process beginning with planning and in turn, programming, execution, and evaluation.

So as not to imply a static regimented process, the model also depicts four arrows emanating from a common

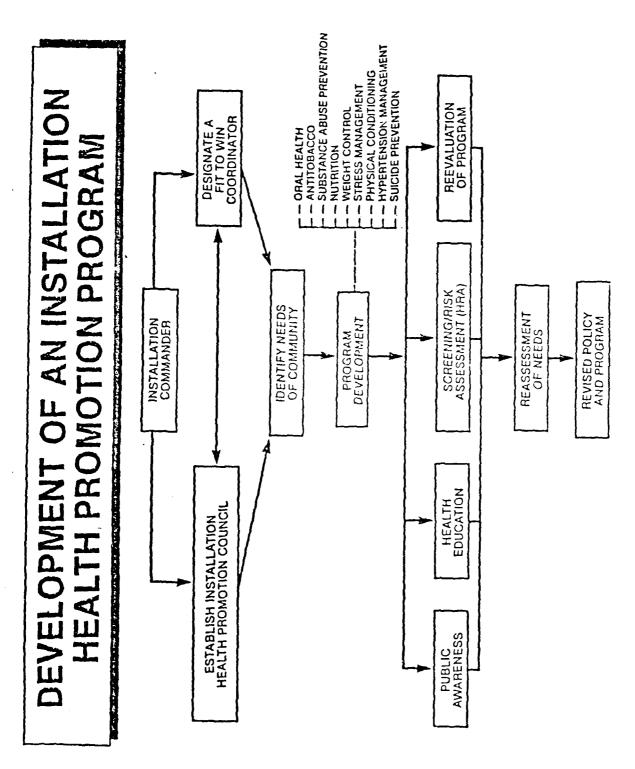


Fig 4. Development of an Installation Health Promotion Program from United States. Dept. of the Army. The Adjutant General, Army Health Promotion Program, (Washington: GPO, 1987) 11.

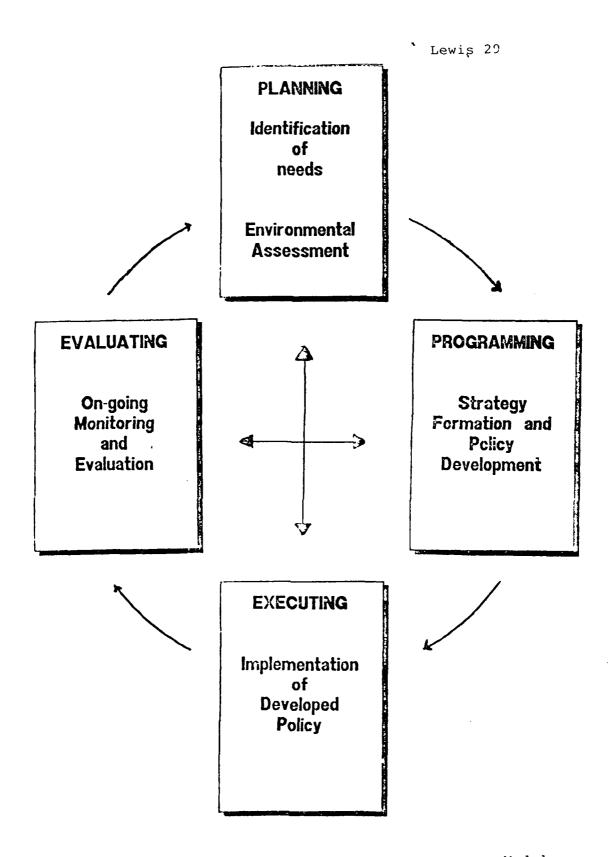


Fig 5. The USCC Health Promotion Program Process Model

center, thus emphasizing the linkage between these four stages. Let us now turn to a more detailed discussion of each of these four elements, in seriatim.

PLANNING:

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Identification of the needs of the community:

Planning is the first element to be considered by the HPC. For the purpose of addressing the planning stage as it applies to health promotion, the reader needs to be aware that the most critical component is the individual, who is at the "primary level of prevention" (Carlin, 100). Therefore, in addressing the development of a model for an implementable program for the USCC, it was important to perform an "environmental assessment" of the community or target population (Shortell and Kaluzny, 420.). Thus, the age group that includes members of the USCC, was considered the target population. This method was chosen as a valid start point in performing a target population analysis because albeit:

"it is difficult to get good data on leading causes of illness and injury among children and adolescents in the United States, along with those risk factors that can be related to them, the data that is available may be of value" (Behrens and Longe, 10).

The importance of performing target population analysis is supported by Speigel and Hyman as they emphasize the need to "differentiate populations and individuals with respect to their health status" prior to the development of a program aimed at health promotion (26). It should be noted the following discussion is not intended to provide an exhaustive, in-depth analysis of major health issues of the target population, but rather to serve as a review of some representative trend information.

Target Population Trend Data:

Since 1960, the National Center for Health
Statistics (NCHS) has measured the health of Americans
by collecting and reporting vital and health
statistics for the United States. Based upon 1981
survey results, the NCHS, in Charting the Nation's
Health, found that "people of all ages have generally
held just about the same perception of their personal
health status over the past several years" (1).
When focusing their analysis on teenagers and young
adults, the report made particular note concerning
deaths. Specifically, "in 1982, 76.3 percent of the
deaths to young people 15-24 years of age were because
of violent causes--mainly accident, homicide, or
suicide" with accidents being the leading cause of

death among this same age group" (6). Regarding deaths due to suicide, since 1960 suicide rates among young adults 15-24 years of age have been "higher for white males than for either black males, white females or black females" (6-7). The NCHS, utilizing life expectancy tables for both 1960 and 1982, (coupled with the number of potential years of life lost to society as the result of the number of lives claimed in this age group due to motor vehicle accidents, homicides, and suicides) noted the number of potential years of life lost more than doubled between 1960 and 1982. Clearly, then, these should be areas of concern within the target population.

Based upon the premise that "at each stage of life, different steps can be taken to maximize well-being", the Surgeon General established goals to deal with the major health problems and risks for the age group that includes the target population of the USCC (Healthy People, 16). The goals established for this age group included improved roadway safety, reducing the misuse of alcohol and drugs, changing values and social pressures regarding nutrition and exercise, information on family planning and sexually transmittable diseases, and reduction of the availability of firearms (150-152). As noted in Charting the Nation's Health, and stated previously, this age group suffers most deaths due to suicide,

drug and alcohol abuse, and relatedly vehicular accidents. Thus, "although this information probably will not be the sole driving force behind selecting activities for youth, it can be a valuable part of any decision-making process" (Behrens and Longe, 10).

Another valuable component in understanding the target population is their personal behavior attributes. Quite frankly, this age group has a mindset that may be best described as the "Age of Invincibility". McAlister, Perry, and Maccoby state the reasons for slow progress in prevention for this target population are two-fold. First, currently there is not a "well-established system of incentive and feedback for stimulating and assessing preventive activity" and secondly, "behaviors detrimental to health are embedded in a complex milieu of social forces that often overwhelms educated rationality" (650). In short, "even if a young person develops a negative attitude toward unhealthy behaviors, she or he may not possess the skills to resist strong social pressures to conform with peers who do not share that attitude" (650-1). This is supported by the fact that the major factor students reported as influencing their decisions in health matters was "peer pressure" and that the "direct influence from a favorite peer appears to be the most potent" (651). Although it is "difficult to reliably assess the cause and effect

relationship in the area of behavioral change",
preliminary data tends to "support the concept that an
active, positive approach toward health and wellness
can bring about behavioral change" even within this
age group (Hettler, 220).

Turning specifically to the members of the USCC, table 1 presents the demographics of the Class of 1990. This table shows that members of the USCC are generally a highly educated, active, intelligent, and motivated group of young women and men. It would be reasonable to argue that the members of the USCC are so well educated and motivated that one could dismiss the offhand application of the broadly stated health concerns of the age group to members of the USCC. Although the literature states that there is "some growth in consumer self-confidence regarding health matters" and the most likely followers of health promotion activities are "young, white, suburban, educated, and financially secure" people (Faber, 338), a recent study at the University of Vermont found that "while 58 percent of the men interviewed had taken a health-related course in the past two years, 75 percent had never heard of testicular cancer" (Carlin, 99). As the "sample represented a young, well-educated, male population" one could conclude that it would be hasty and ill-advised to not use the data available for the age group and apply it

PROFI	LE - C	LASS	OF	1990
VOLUME OF APPLICANTS APPLICANT FILES STARTED 11234 1761 NOMINATED AND EXAMINED 4945 745 QUALIFIED (academically, medically & in physical apitude). 2501 221				
ADMITTED 1173 157				
RANK IN HI FIRST FIFTH SECOND FIF THIRD FIFTH FOURTH FIF BOTTOM FIF	TH		 ,	. 0.3%
AMERICAN COLLEGE TESTING (ACT) ASSESSMENT PROGRAM SCORES*				
RANGE 31-36 26-30 21-25 16-20 11-15 MEAN	ENG 4% 24% 61% 10% 1% 24	MATH N 35% 49% 16% 0% 0%	1AT SCI S 47% 39% 12% 2% 0% 29	oc sci 12% 48% 31% 6% 3% 26
COLLEGE BOARD ADMISSIONS TESTING PROGRAM (CBATP) SCORES*				
· APTITUDE				
RANGE 700-800 600-699 500-599 400-499 300-399 MEAN *Includes only sc	cores used as	à basis for a	VERBAL 4% 28% 52% 16% 0% 570	MATH 22% 53% 24% 1% 0% 640
ACADEMIC HONORS				
CLASS VALE CLASS SALU NATIONAL I RECOGNI NATIONAL I	DICTORIA ITATORIA MERIT SCI	ANS NS HOLARSH	 IP	132 72 347 858
ACTIVITIES				
BOYS/GIRLS CLASS PRES STUDENT I	IDENT OR			
SCHOOL PU				
- School Pape School Pape Yearbook E Yearbook S	er Editor or er Staff ditor or Co	Co Editor Editor		229
DEBATING .				155
DRAMATICS				
SCOUTING PARTICIPANTS				
VARSITY AT Letter Winn Team Capto	er		 	. 1159

Table 1. Profile--Class of 1990 from United States Military Academy, The Class of 1990, (New York: The Adjutant General, 1987) 3.

to the USCC (Carlin, 99). Couple these broad tendencies, with the relatively closed and clearly regimented environment that the members of USCC are a part of, and one may presume that there exists an environment which could be of benefit in implementing a health promotion program. In sum, in developing the model, it was important to address these unique challenges that are present in working with this particular target population. Certainly, this initial environmental assessment was but a cursory review of the target population but was felt to serve as a useful process in identifying the potential needs of the USCC. The next stage in developing the model was programming.

PROGRAMMING:

Strategy Formation and Policy Development

The program development phase of the model emphasized the need to identify resources, prioritize program elements based upon the target population analysis, and establish broad goals and objectives.

Resource Identification and Program Priorities

Regarding the identification of resources the investigator noted that the membership of the

Installation Health Promotion Council was specified by the Army Health Promotion Program regulation. The suggested membership is listed in figure 6. These members are considered critical, as they represent a broad spectrum of the staff that manages resources applicable to the health promotion program. Using this information as guidance, the USMA Organization and Functions manual was reviewed and the researcher developed the USCC Health Promotion Resource Model found at Appendix A. This model is intended to highlight those community resources that are currently available which may be incorporated into a comprehensive health wellness program for the USCC at the USMA.

The USCC Health Promotion Resource Model lists those USCC-specific staff positions, and their related functions, as they may apply to a health promotion program. The model further matches these functions to the appropriate elements of the Army Health Promotion Program and have been labelled as either primary areas of concentration (PAOC) or secondary areas of concentration (SAOC). The areas of concentration are intended to mirror the intent of the Army Health Promotion Program. It should be noted that the order in which they are currently listed in this matrix do not necessarily imply preferential rank ordering for the purposes the regulation. Rather, they reflect the

SUGGESTED COMPOSITION OF HPC

- MEMBER OF THE COMMAND GROUP (CHAIR)
- DIRECTOR, PERSONNEL AND COMMUNITY ACTIVITIES
- COMMANDER, MEDICAL TREATMENT FACILITY
 - DIRECTOR, MORALE SUPPORT ACTIVITIES
 - PUBLIC AFFAIRS OFFICER
- POST FOOD ADVISOR
 - POST LIBRARIAN
- COORDINATOR, FAMILY ADVOCACY PROGRAM
- COORDINATOR, CHILD SUPPORT SERVICES
 FIELD DIRECTOR, AMERICAN RED CROSS
 - CHAPLAIN
- ALCOHOL AND DRUG CONTROL OFFICER
- SAFETY OFFICER
- MASTER FITNESS TRAINER (UNIT)
- SOLDIER AND FAMILY FITNESS COORDINATOR (CFSC)
- G-3 AND G-4 REPRESENTATIVES

OGJ 0

Fig 6. Suggested Composition of the Health Promotion Council adapted from United States. Dept. of the Army. The Adjutant General, Army Health Promotion Program, (Washington: GPO, 1987) 6.

priorities the Commandant of Cadets should consider based upon the general tendencies of the target population.

Primary areas of concentration (PAOC) were chosen based upon the elements of the Army health promotion program and the Surgeon General's seven major preventable non-disease causes of poor health, injury, or death in the target population. Thus, the model developed for the USCC retains some of the same elements provided for in the Army guidance while, at the same time, it serves to emphasize the unique target population characteristics of the USCC.

The secondary areas of concentration (SAOC) are incorporated because there is "good evidence that many causes of death at age 40 are the result of behaviors established during the adolescent and young adult years" (Hettler, 209-10). Likewise, the Surgeon General states that "although chronic diseases are not among the major causes of death (for the target population)...the lifestyles and behavior patterns which are shaped during these years may determine later susceptibility to chronic diseases" (Healthy People, 43). In Faber's words, since "many of the chronic diseases are life style induced, the patient needs to become involved in health maintenance well before the appearance of any symptoms" (341).

Thus, health promotion requires an integrated, total life span approach. If this were not so then one could potentially win the battle of their target population goals (i.e., reduce accidents and suicides), but lose the war later in the life cycle, due to a failure to focus on the impact of one's current lifestyle choices and actions on subsequent health outcomes (i.e., personal nutritional choices). Conversely, it would mean little to ensure healthy dietary habits which would reduce the risk of heart disease, if the individual failed to take the proper precautions necessary to reduce the risk of a motor vehicle accident (i.e., failure to wear a seatbelt). At this juncture, it is appropriate to present some pertinent facts supporting why elements were selected as either primary areas of concentration (PAOC) or as secondary areas of concentration (SAOC).

PRIMARY AREAS OF CONCENTRATION

(1) Safety and Accident Prevention—Although neither safety nor accident prevention are addressed in the Army Health Promotion Program, they are essential components for this target population. The behavior patterns referred to earlier include "judgmental errors, aggressiveness, and in some cases, ambivalence about wanting to live or die" which result

in greater risk taking (Objectives for the Nation, 43). These behavior patterns, coupled with a motor vehicle, result in the need to prioritize safety and injury control. For instance, in 1977, motor vehicle accidents were the leading cause of mortality in the 15 to 24 year old group, accounting for 37 percent of all deaths for this age. Viewed differently, members of this age group are twice as likely to die in a traffic accident as are drivers 25 years old or older. Finally, highlighting the need to focus on this PAOC, for the target population discussed, is the fact that the motor vehicle accident (MVA) fatality rate climbed from 39.2 deaths per 100,000 in 1975 to 46.1 deaths per 100,000 in 1978 (Objectives for the Nation, 45).

abuse have major impacts in many areas. Not only does abuse increase an individual's risk of a MVA, they also contribute "to poor school performance" and have a potential for leading to long-term chronic disease. Specifically, "alcohol-related accidents are the leading cause of death" for this target population (Objectives for the Nation, 46). It is no wonder as nearly 80 percent of 12 to 17 year olds reported having a drink and "more than half drink at least once

a month". Likewise, 60 percent of 18-25 year olds reported having "tried marijuana".

However, the affects of alcohol and drugs are not limited to MVAs. It has been reported that "an undetermined portion of deaths and medical emergencies relate to drug use for suicide and attempted suicide" tor this target population as well (Objectives for the Nation, 63).

- (3) Antitobacco Counselling—Smoking, is "the single most important preventable cause of death and disease". Though the share of the population who smoke declined for the country as a whole, "the declines have not been great among adolescents and there have been increases in the rates for 17 and 18 year old women" (Objectives for the Nati , 61).
- (4) Suicide Prevention—The exact causes of suicide are unclear. Certainly society's expectations exert a great deal of pressure on this age group.

 This pressure may manifest itself in the fact that suicide is "the third leading cause of death among teenagers and young adults" with those at highest risk being "people who are severely depressed and those at odds with themselves and the people close to them" (Objectives for the Nation, 50-51).

- (5) Spiritual Wellness--A foundation can be either established or strengthened during the period cadets are at the USMA to help individuals cope with the many societal expectations of them while at West Point (as well as the normal stress and demands related to attending college).
- (6) Stress Management--Although some stress may be beneficial, "stressful conditions can result in substantial dysfunction". In fact, "unmanaged stress plays a major role in suicides and homicides" which are leading causes of death for this target population (Objectives for the Nation, 83).
- problem for this age group is the inadequate knowledge of and access to information on sexual behavior and family planning services" (Objectives for the Nation, 48). Gonorrhea, syphillis, and other sexually transmittable diseases account for "an estimated 12 million cases of sexually transmitted diseases a year" with the greatest risk of acquiring them occurring among young people (Objectives for the Nation, 49).

SECONDARY AREAS OF CONCENTRATION

(1) Physical Fitness--It is clear that there

are substantial benefits, both physical and emotional, direct and indirect, from regular exercise. Despite this fact, only about "a third of children and adolescents are estimated to participate in a daily physical education program" (Morris, 86).

- related to nutrition and food consumption involve complex interactions among social, cultural, economic, and physiological factors" (Objectives for the Nation, 73). Additionally, poor nutrition, such as a high-salt diet, is related to hypertension and a high-fat diet is related to coronary heart disease. In short, failure to actively improve in this area will in all likelihood have lasting long term consequences.
- (3) Hypertension—This is considered a secondary area of concentration because, although it is related to stress which is a primary area of concentration, its impact is generally manifested later in life. The impact of other actions which may cause hypertension, such as poor nutrition, have been previously addressed.
- (4) Oral Health--"Dental screening is important and all adolescents should continue to be seen at

approximately 6-month intervals" (Morris, 104). "Due to ingestion of frequent high sugar snacks, caries appear in increased numbers during adolescence" (Morris, 97).

The researcher also developed the USMA Health Promotion Resource Model which may be found at Appendix B. The PAOC and SAOC were purposely listed in the same order as they were listed in the USCC matrix model. By so doing, the models stress the interaction between those resource elements unique to the USMA and those resource elements unique to the USCC.

In short, these models were designed to serve as start points upon which to build rather than as end points that are directive in nature. The intent of the models is to assist the HPC in identifying existing resources at West Point that are capable of supporting a dynamic and integrated health promotion program. It is reasonable to expect that the membership of the HPC will find these models useful in directing organizational elements having similar functions to work together in the development of a program for the USCC target population. The synergism that might result could potentially reduce redundancy and will serve to achieve the common goal of health promotion for the Total Army Family.

With the resources identified and the areas of

concentration prioritized there was then a need to establish goals and objectives for the USCC program.

Goals and Objectives

It would be premature for the researcher to explicitly state what the actual, detailed goals and objectives for the HPC should be as they apply to the USCC. However, the criteria by which goals and objectives could be established by the USCC are addressed in a broad, general sense.

- (1) The goals and objectives should not be so limiting as to stifle action on the part of the individual because "a high proportion of values and influences always remains hidden until implementation is undertaken, and the multiplicity of such influences makes any prediction of reaction hazardous" (Blum, 532). Thus, broad goals and objectives act as "trial balloons" just as the rhetoric before an election is designed to "test the reactions to tentative approaches" (Blum, 532).
- (2) The goals and objectives should be designed as a guide for the individual rather than as a directive. The reason for this can best be described using a model developed by Blum. The model in figure

7 describes the relationship of a change agent (in this case the HPC) with the target population (members of the USCC). On the far left hand side of the figure the change agent has a strong role in carrying out something already authorized. Moving toward the right, the change agent has a strong role in suggesting certain things be carried out. Regarding the specific task at hand, the authority (an Army Health Promotion Program regulation) coupled with the regimentation of the target population (the USCC) implies the enforcement-obedience dichotomy depicted on the far left of the figure. However, when the change that is sought pertains to personal services requiring personal initiative, the change agent must "hope to motivate the target perscalls so that he comes to believe in and carries out a particular health behavior desired" by the change agent (Blum 533). In short it is necessary for the change agent to establish broad goals and objectives that set a direction for the individual to pursue.

(3) Finally, the goals and objectives should be reasonable, achievable, and measurable. This supports the current literature which, as stated in Chapter 1, emphasizes the need "to define objectives of programs to improve" health (Fielding, 4). By so doing, the HPC will have a method of evaluating the program.

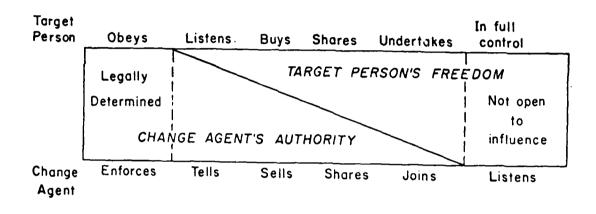


Fig 7. Change Agent Model from Hendrick Blum, <u>Planning</u> for <u>Health</u>, (New York: Human Sciences Press, 1974) 532.

(The evaluation stage will be expanded upon following a discussion of the execution stage of the model.) At a minimum, the overall goals should help the members of the USCC understand the major causes of disease, accidental injury, and death, make them aware of those factors which are hazardous to their health, help them to make the choices they should make to eliminate—or at least to reduce—those hazards, and show individuals how to use the health care system properly to become informed, active partners in their own health care and maintenance.

Once the HPC formulates specific goals and objectives it will be up to a Fit-To-Win Coordinator to facilitate the HPC's initiatives and to "ensure the effectiveness of the overall program" (AR 600-63, 8). However, even the best laid plans of the HPC will be doomed to failure if the implementation phase of the process itself is not well planned, comprehensive, and executed in a unified fashion.

Executing:

Program Implementation

There are many methods which can be considered in implementing a program. To provide a long litany of approaches regarding implementation would be fruitless. The five representative items offered

possibilities. Rather they serve as examples of the many avenues that may be effective in implementing a health promotion programfor the members of the USCC.

- (1) Use of the chain-of-command: By using the chain of command a signal is sent to the members of the USCC that health promotion is an important component in their professional development. By making the tenets of health promotion a specific goal on the Officer Efficiency Report Support Form, (for instance the Regimental tactical officer's) the "incentive" would be in place to emphasize wellness to the members of the USCC.
- must emphasize the importance of "maintaining the human weapon system" and implore the members of the USCC to practice sound lifestyles based upon the areas of concentration discussed (Wolcott, personal interview). This may be done by communicating thoughts on health promotion in the cadet daily bulletin, the cadet radio station, or in formations to mention but a few possibilities.
- (3) Peers: Recalling the influence of peers, the current peer counselor system within the USCC

would be another avenue of approach in implementing the goals and objectives of the health promotion program. According to Bandura "new behaviors tend to originate...from exposures to powerful models; that is attractive or prestigious individuals" (Bandura, 46.) Briefly, the cadets chosen to be peer counselors are noted for their caring attitude and leadership. Thus, they are not only motivated to encourage their fellow cadets but they serve as influencial role models as well.

- at the USMA. As an example, the USCC is currently taught about human sexuality issues ranging from sexually transmitted diseases to information on self examinations for breast or testicular cancer. It is imperative that the USMA continue to emphasize health education as a part of the USCC curriculum as "the academic programs of most colleges and universities could be enhanced by wellness promotion efforts" (Hettler, 210).
- (5) Health Risk Appraisal: Another effective tool is the use of a Health Risk Appraisal (HRA) as the individual's awareness about health promotion is "increased by the content of the health hazard appraisal questionnaire" (Dunton, 307). A specific

evaluation of the HRA as it applies to college students found that "even though it may not change personal health behavior, it may change behavior in terms of entering specific health programs where more effective behavior change modalities could be implemented" (Wilson and Wingender, 30). Neff and Landrum found that completing a HRA "may force people to make negative conclusions about their own actions, and may promote a private, voluntary decision to change" their behavior (4).

In short, these five methodologies, coupled with the results of the planning and programming stages in the model presented, lay the groundwork for the evaluation phase.

Evaluating:

Ongoing Monitoring and Evaluation

Even though this is the fourth and final stage presented in the model, it does not imply an end. In fact, the purpose of the evaluation stage is to test the work performed in the previous stages as well as to act as a foundation for beginning another iteration of the model. In other words, it is at this stage that the HPC can gather data that will assist them in the monitoring of and determining the successes and the failures of their proposed programs.

For the purposes of the USCC, the evaluation of their programs would be served by the aggressive implementation of a HRA for the members of the USCC. By conducting an initial HRA, the HPC would establish a baseline that is more definitive than the target population analysis proposed earlier. Then following the implementation of developed programs, the HPC could again gather data using the same HRA survey instrument and compare the newly acquired information with the baseline information. Furthermore, the HRA could be supplemented with other survey instruments designed to target certain wellness issues. (For instance, the Substance Abuse Subtle Screening Inventory which assesses chemical dependency.) In any case, information collection is critical "because the information is used not only for planning services and activities but also for planning promotional efforts" (Longe and Wolf, 25).

In sum, the degree to which the HPC chooses to evaluate the programs developed depends upon what they want to learn from the information collected, the financial resources available for information gathering and evaluation, and the time allowed to collect the information. At the very least they should "look at the statistical base about the community or targeted segments" as they perform functions within the evaluation stage (Longe and Wolf, 32). In essence, when the model is used as it

is intended, an "iterative cycle" will occur similar to Blum's model, which is duplicated in figure 8 (Blum, 542). Having developed the model presented and explaining the various components contained therein it is appropriate to discuss the advantages and disadvantages of the model followed by an overview of the criteria established for this study, recommendations, and concluding remarks.

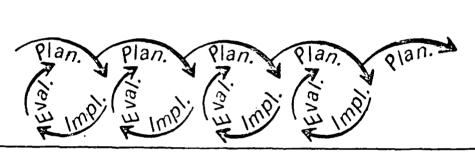
First, the target population is emphasized.

Thus, the decision-makers (members of the HPC) can see what priorities should be set for the USCC, in contradistinction to priorities they may choose for other target populations for which they will also be responsible. This is important, as members of the HPC will approve the development and implementation of health promotion programs for the Total Army Family, as well conducting the ongoing monitoring and evaluation of all programs.

Secondly, the model provides latitude in implementation. By providing a list of primary and secondary areas of concentration in the USCC and USMA Health Promotion Resource Models, the HPC can choose what to emphasize. Based upon their choices, they will be encouraged to establish short and long term goals and objectives for each area of concentration.

Thirdly, the health promotion resource models, as a part of the health promotion program management

ITERATIVE CYCLE OF PLANNING—IMPLEMENTING—EVALUATING



PAST

FUTURE

Fig 8. Iterative Cycle of Planning from Hendrick Blum, Planning for Health, (New York: Human Sciences Press, 1974) 538.

process model, will be educational tools to both the members of the HPC as well as to the members of the USCC. The members of the HPC can see the emphasis on the target population and the members of the USCC can use these models as templates to see what areas need to be improved upon both as leaders within the USCC chain-of-command as well as individual members of the USCC.

Finally, the model recognizes that health promotion is a dynamic, multi-faceted, ongoing process. Thus, the model is designed to be flexible rather than directive. It is not, and never has been, the intent of the researcher to provide an all-inclusive guide for the HPC, but rather to develop a useful tool that may be used and changed as the members of the HPC see fit. It is this last point that highlights the model's potential disadvantages.

First, the information on the age group that comprises the members of the USCC is quite broad. Thus, certain sub-characteristics of the specific target population may not be fully addressed in the planning phase, due to the lack of specific information within the aggregated data of the age group. The second major criticism may be that the model is in no way exhaustive. This was in keeping with the intent of the researcher, as the model is a tool to be used in managing the on-going dynamics of

health promotion. It provides the HPC with a systematic methodology in determining the needs of the target population.

In sum, the model that has been developed is seen as a useful tool for the HPC in providing an implementable health promotion program for the USCC. It will ultimately be up to these representatives of the HPC to identify existing health promotion programs, and integrate MTF programs with other health promotion programs, as well as to perform an assessment of the strengths and weaknesses of the health promotion programs.

In short, the USCC Health Promotion Program
Management Process Model (figure 5 on page 23), the
USCC Health Promotion Resource Model (Appendix A) and
the USMA Health Promotion Resource Model (Appendix B)
are intended to provide the members of the
Installation Health Promotion Council a sound
methodology as well as a clear and concise picture of
those elements serving at West Point that are critical
in addressing the health promotion program. This
brings us to an overview of the established criteria
of this study, followed by recommendations and
concluding remarks.

Overview of Criteria

Before continuing, let us return to the criteria established in Chapter One and discuss briefly how they apply to the health promotion program management model presented in this chapter.

The first criterion stated that any requirements and standards for the proper development of a wellness program as prescribed by the JCAHO must be met. As previously discussed, the JCAHO does not specifically address health wellness programs. In other words, the JCAHO offers no guidelines for the development of a health promotion program, per se. However, it was determined by researching the JCAHO standards that various areas emphasized by the JCAHO must be met once a program is implemented. For example, the results of the HRA become a part of the medical documentation of the patient and therefore must be filed in the appropriate patient medical record in a timely fashion and respect the patient's right to privacy. Likewise, when blood is drawn to determine the patient's cholesterol level, the same JCAHO infection control standards apply. In short, albeit the JCAHO does not specifically address health promotion programs directly, the medically-related aspects of a health promotion program are under the same JCAHO scrutiny and standard of care expected of a health care

facility.

The second criterion stated that the requirements and standards for the proper implementation of a wellness program as prescribed by HSC, the OTSG, the DA and the DoD must be met. Unfortunately, the requirements and standards of the aforementioned agencies could not be measured since the USCC has neither an ongoing viable HPC nor a health promotion program. However, the approach taken in this paper was to develop a systems management model which assumes a dynamic, ongoing process for the development, monitoring, and evaluation of an USCC health promotion program.

Since, at this point in time, the USMA is still in the developmental stages of a health promotion program, it is imperative that the USMA meet the standards and requirements established by pertinent governing regulations. For example, the members of the HPC must ensure that the intent of AR 600-63 is met.

Likewise, as the HPC formulates an agenda and strategic vision for the health promotion program, it would behoove the West Point MEDDAC Commander to execute those responsibilities previously described.

In fact, the West Point MEDDAC is actively involved in creating a foundation for a community health promotion program. For example, it is anticipated that in

February 1989 the West Point MEDDAC will have a Defense Management Information System Patient Appointment and Scheduling system. This system will be linked to an interactive database which will have patient information. Included in this database will be a data field which will note whether or not the patient has had a health risk appraisal.

Criterion three stated that implementation directives and guidelines should adhere to requirements of the military and the JCANO. Regarding this criterion, as the West Point Community has yet to establish a health promotion program, there is currently an absence of implementation directives, SOPs, and guidelines on such a program. However, the current Fitness Facilitator for the Army Health Promotion Program (the Community Health Nurse) is aware of the need to ensure all regulatory guidelines are met.

It is important to note that supplementation of AR 600-63 "is encouraged to tailor health promotion to the local command" (1). However, HSC Regulation 40-27 HSC Support of the Army Health Promotion Program, states supplementation is prohibited without prior approval from HQ, HSC. Thus, there exists an internal inconsistency which must be addressed.

Criterion four stated that the proposed program management process model should be acceptable to the

post-level Health Promotion Council. However, since the post-level HPC has yet to meet, this criterion could not be determined to be either acceptable or unacceptable.

Finally, criterion five states that the USCC health promotion program process model must be implementable and not require extensive use of resources. Again, as the HPC has not met, it can not yet be determined if the model is implementable or not. This is up to the HPC to determine. Notionally, the USCC health promotion program process model is a management process model. It is descriptive of the actions deemed necessary in creating a viable, meaningful, and ongoing health promotion program for the members of the USCC. This model, coupled with the resource model matrices at Appendix A and B, creates a solid foundation upon which to build a health promotion program for the USCC. Let us now turn to the specific recommendations based upon this research.

III. RECOMMENDATIONS AND CONCLUSION

Recommendations

certainly, as stated earlier, the model is not exhaustive. This was purposeful, as the concept was to provide the HPC with a starting point and a broad and general framework, rather than a final product. With this in mind, the following overview of criteria, recommendations, and concluding remarks are offered.

Recommendation 1: Use of Health Risk Appraisal

The Army Health Promotion Program, has approved the use of a Health Risk Appraisal (HRA) as the assessment tool in the implementation of the health promotion program throughout the Army. The particular HRA is based upon the University of Rhode Island program. Although there are flaws stated in the literature concerning the use of such an instrument for a younger population, it is a generally accepted tool for establishing a baseline of information; a start point if you will. An example of the Army HRA questionnaire may be found at figure 9.

Essentially, the HRA uses focused questions designed to determine certain risk factors and when

U. S. ARMY WELLNESS CHECK (version 2.0)

(1) E existed man/woman (2) O officer
(2) W waters officer
Mark the code that refers to the number in your grade (1-5)

Next, must the code that refers to the letter (£7W/O) in you grade.

Much the first digit of your age.
Much the second digit of your age.
46. MILLIARY CRADE: Write your gode in the box on the answer card, for example for 12, with

for the above example, here is a properly marked can

45. ACd: Write your age in the box on the answer card, for example for twenty years of age unite —>

Change of station (PCS) in the party gard	28. In the List year, have you (or your tringly member) been separated from your home base for more than three weeks at a time? (2) no. (3) no. (4) how you been informed in the List Spear that either your blood presume was high or bonderine high! (1) no. (2) you, high.	11) yet to now being iteated (10) high blood pressured (1) yet (1) yet (1) when 200 mgs, (4) "I don't senamber" (5) Between 200 mgs, (6) "I don't senamber" (1) over 320 mgs, (5) "Interest had in measured (1) over 320 mgs, (6) "Interest had in measured (1) when you had disconding those the west (chee, shoulder, next, yet, arm pain, pressure, lightness) that start from sin.	erion but gons away with raid (1) no (1) yes (2) no (2) no (3) no (4) oo you do testicular self-raim (males) or breast self-quam (formales)	(1) no (2) yes, occusionally (2) yes, at least monthly (3) Have any of your close blood relatives (payed, grandparent, brother, or safer) had a heast attach before age 601 (1) no (2) yes (3) don't know (3) Have any of your close blood relatives (parent, grandparent, brother, or safer) had a sheeke before age 601 (1) no (2) yes (3) don't know	Have any of your close blood relatives (parest, grandparent, brother, or sizer) had high blood pressure before age 601 (1) no (2) yes (3) don't know	39. Heve any of very chee blood relatives (parent, grandparent, brother, or sixes) had disbettes? (1) no. (2) yet (3) don't know 39. S.Y. What is your sen? (2) female 60 femiles only. When the New and had the feet and the feet and femiles only. When the had the feet and the feet and femiles only. When the had the feet and the feet and femiles only.	(1) yes (1) femiles only: Here you had a bread essaination in the past (1) res (1) yes (2) no	42. Females only: Do you take birth control pillal (f) yes (f) no 43. MAZITAL STATUS: Are you currently— (f) married or living as married as married as married as married as married by requested a not living as married by depending the married by democred 6 not living as married by democred 6 not living as married by democred 6 not living as married by an enterted by democred 6 not living as married by an enterted by democred 6 not living as married by an enterted by democred 6 not living as married by an enterted by democred 6 not living as married by an enterted by democred 6 not living as married by an enterted by democred 6 not living as married by the pilling as pilling as married by the pilling as married by the pilling as married	et. EUGIBILITY STATUS: Are you. (a) bette duy military but on the bastchafuschd trading) (b) active dury military in bastc or duranzed trading) (d) active dury military in bastc or duranzed trading) (e) testred military (f) testred military (f) annly member of resiste (f) chilary member of resiste (f) other
provided the a No. 2 penul univ mark in the square completely,	13. in a typest weet, how many days do you have at least one dank of stolod (beer, weer, or or 7 days per weet (1) "1 don't drink" (1) to 0.7 days per weet (1) 10.5 days per weet (1) 10.5 days per weet (1) 10.5 days per weet (2) 10.5 days per weet (3) not even tally dank) and on the content of	10 10 12 doing a week 11 10 10 doinks a week 13 110 10 doinks a week 13 110 10 doinks a week 14 more than 30 dinnks a week 15 more than 30 dinnks a week 16 more than 30 dinnks a week 17 where deriver a personal vehicle, how often do 18 behary/week 19 more than 3 more than 3 personal vehicle, how often do 19 more than 3 more than	18. Do you ever dive alter you've been dinaling? (1) no, never (2) yes, but not yesty time is godicking (4) yes, almost every time is outside.	19. Do you ever ridd wath a dimer who has been duraking! (1) not, never (1) yes, but not every time we go diruking (3) yes, almost every time we go diruking (4) yes, almost every time we go diruking (3) in the past two years have you been ticketed for speeding or any other moning moduton! (3) yes (1) yes (3) ho he but years have you had a senous personal loss or mis-	ionure time standard pomotion patroles; otorics/para- tion, legal action, disciplinary action, bankriostry, death of someone close, serious almest/injury of a loved one, etc. 1) pr	22. Have you especialised a major pleasant change in the past year low standar, pomotion, manuage, bith, sawad, etc., It in the past (I) yes. 23. Do you have trouble going to deep and do not rest we'll! (I) yes. 43 no.		13. In the past year, have your workes interfered with your daily life? (1) yes, sometimes (2) yes, other (3) yes, other (4) yes, other propie you estitution to fast support in bad moments (1) yes (3) yes	They you verticully considered success in the last two yand (1) yes (2) yes (2) yes (2) yes (3) Yes (3) Yes (4) Yes (4) Yes (5) Yes (5) Yes (5) Yes (5) Yes (6) Yes (6) Yes (6) Yes (7) Yes (7
Bleerlean Peace mail Ald rour anners on the AMSWER CARD provided the a his 2 pend unit mail in the square completely,	1. These valents do you set less well-based monity to daily (1) daily no should daily (1) bets than 3 daily a week (2) 10 5 days a week (3) bets than 3 days a week (3) 10 5 days a week (4) factly no recess to have been on the control of the contr	and, backer, charted baugh, passes they etc. (*) (1) darly or almost dally (1) less than 1 days week (2) les Sdays a week (3) les Sdays a week (4) less darly a week (5) les Sdays as by the seek tuch as while gran bracks, creech, bran, rew limit, or has vegetabler) (3) darly or almost darly (3) less darys a week (4) less darys a week (5) less darys a week (6) less darys a week (7) less average, how many hours of lakey do you get each	injust (1) her shars shown (1) to a bours (1) for a bours	Kow often to pruce at least 20 minutes in formation settled. Return frigorous restore fluid greatly priceses your bloeshing and the settled fluid freely priceses you bloeshing and the settled fluid	2 times a week a have a physical cand aerosing?	(2) no. 1. Do you smoke a garentes now! (1) yes. (2) no. "I qual to be last 6 month." (3) no. "I qual to the last 6 month." (4) no. "I now over 6 months ago." (5) no. "I never smoke". 18. How much do you smoke n ?	(i) "I don't unche" (i) her shows the kizach a du, (ii) over-bull to over-bull to over pack a day (ii) over to troup pack a day (ii) over to troup pack a day (ii) two or more pack a day (ii) two or more pack a day (iii)	(1) "I don't snoke" (2) kes than 1 year (3) to 6 years (4) to 10 years (5) more than 10 years (5) more than 10 years (7) "I don't snoke" (7) "I would like to quit secretly?"	11. Now often do you uncle a pape or cyful (1) moret (1) her bun daily (1) daily (1) her bun daily (1) daily (1) her often do you use amolaters tobacco such as chewing tobacco a multi (1) her bun daily (1) moret (1) moret

X.A. What was the result of your electrocardiograph (ECC) (1) Livit positive (4) did not have done (3) Livit regains (3) other fadings positive (1) other fadings positive

X-2. What was your blood sugar measurement!
(1) Insuhan 120mg% (3) did not have done
(2) greater than or equal to 120mg%

FOR PERSONNEL DURING PHYRICAL EXAM ONLY! (complete only with the guidance of health care per-

X-1. What was the result of your urine test? (i) negaine for sugar

Fig 9 U.S. Army Wellness Check from United States. Dept of the Army. (Washington: GPO, 1987)

completed, provides an initial assessment of the relative magnitude of these risk factors as compared to the statistical database of the HRA. Then, based upon statistical probabilities, the computer generates a focused and relative risk assessment for each respondent. (A copy of the results of the researcher's HRA can be found at Figure 10.)

Recommendation 2: Implementing the HRA

Under the current Army program, the HRA is to be conducted "as part of the ongoing periodic physical examination" (AR 600-63, 7). Again, as the regulation does not specifically cover members of the Corps of Cadets, the method of conducting the HRA must be addressed. I recommend the HRA be initially conducted as a part of the in-processing of new accessions to the USCC or as a part of the pre-admission physical. Essentially, this would be in addition to the newly added requirements of alcohol and drug testing for new members of the USCC per the directive of the Chief of Staff of the Army. Further, based upon the results of the HRA, all cadets would be provided general information during a class provided to them during their plebe year of Cadet Basic Training. In addition to this class, they would be

CATEGORY	SCORES	YOUR SCORE	COMMENT
'Little or No Risk Slightly Risky Risky Very Risky Extremely Risky	 90-100 80-89 65-79 50-64 under 50	 99	 YOU'RE CLOSE - IRY HARDER

* Continue eating balanced meals with moderation in fat and salt along with adequate fiber.

* Esting high fiber foods greatly reduces your risk of certain cancers. Fiber should be part of any balanced diet. Examples of of high fiber foods are: wholegrain cereals and breads, fruits, and some vegetables like peas and beans.

* YOUR BODY NEEDS ONLY 20 MINUTES OF AEROBIC EXERCISE 3 TIMES A WEEK. NEGLECTING EXERCISE HAS HIGH PERSONAL COST. (To be aerobic, an activity must increase your breathing and heart rate for 20 continuous minutes. Examples are: walking, biking, swimming, or running.)

* By not smoking, you `FIT-IN' in today's Army, and are among the majority of Americans choosing not to smoke. By never smoking, you have avoided THE number one preventable cause of illness and death.

- * You reported a lot of potential stress. Not all stress is harmful, but if it is causing problems for you, find ways to slow down, relax, and talk it over. Remember, help is available.
- * It is important to have someone to turn to for support when faced with illness or other serious problems. You are fortunate to have this kind of help. Maintaining this type of relationship is essential to your overall well being.
- * Hypertension (high blood pressure) is a very serious lifelong condition. Since you fall into the 'borderline' category, you should monitor your blood pressure regularly and follow your doctor's suggestions concerning exercise, diet, weight control, etc..
- * Since cholesterol is an important indicator of health, you are to be congratulated on both knowing your level and on having a reading in the ideal range (below 200). You can keep it at a safe level by limiting fat and cholesterol in your diet and by exercising regularly.
- * You are not taking proper precautions against testicular cancer. By practicing testicular self-examination, your chances of discovering a problem early (while it can be treated effectively) are greatly increased.

YOU PERFORMED WELL IN THE FOLLOWING AREAS: * Tobacco Use

* Drinking

* Seatbalt Use

<< Wellness Check DCES NOT replace on evaluation by a physician. >>

* DA FORM 2005 PRIVACY ACT STATEMENT APPLIES; HSC FORM 500-63-E-R (TEST) 1 MAR 87 *

AGE GRADE HEIGHT WEIGHT 31 0 3 5 9 175

Fig $_{10}$ U.S. Army Wellness Check Results from United States. Dept. of the Army. (Washington: GPO, 1987)

provided a list of support agencies on post where they could seek more information.

It is important that any specific information desired be provided in confidence, as the HRA is a self-reporting survey instrument. If the HRA is viewed by the user as a method for identifying potential abusers of drugs and alcohol with subsequent punishment of the individual, then the respondent will not be honest in her/his answers.

Additionally, I recommend, as a long-term goal, consideration be given to incorporating the HRA into the USCC Cadet Barracks Local Area Network (CBLAN).

Currently, all members of the USCC are "on-line" with a mainframe computer at the USMA. Potentially, then, the HRA questionnaire could be voluntarily accessed by cadets. Again, based upon the computer-generated results of the HRA, (similar to the computer generated results shown in figure 10 on page 65) the cadet would be afforded the opportunity to guery a menu-driven database that contained more detailed information on a range of potential topics of interest.

If this CBLAN network concept were adopted, then the Commandant of the USCC could have an established protocol and methodology that could create longitudinal data. While ensuring anonymity, the data could be collected and analyzed to determine the progress of the members of the USCC who had gueried

the HRA menu. Examples of such an analysis, as it is generated from the HRA software program, are shown in Appendix C.

Recommendation 3: Other assessment tools

If the CBLAN network concept is to be adopted, then other methods of seeking information on the members of the USCC could be incorporated into the CBLAN as well. Although it is beyond the scope of this paper to provide an exhaustive review of other potential survey instruments to be used in conjunction with the CBLAN, it may be appropriate to provide an example of another survey tool that is available. Since the HRA is a self-reporting instrument that can potentially be answered so as to present the best possible picture of the respondent, then consideration may be given to using other, more unobtrusive survey instruments in addition to the HRA.

As an example, Cooper and Robinson conducted a study of entering freshmen at a midwestern university (with an average age of 18 years old). Using a Substance Abuse Subtle Screening Inventory (SASSI) developed to assess chemical dependency they found "the SASSI shows definite potential as a short, inexpensive assessment tool that can differentiate among chemical abusers [and] social drinkers,

independent of the respondent's level of honesty in answering the questionnaire" (183).

In short, the SASSI could potentially act as a cross-validation of the HRA, and based upon Cooper and Robinson's initial findings, may prove useful "for detecting chemical dependency in college students" (182).

Other sources of data on the target population that may be useful could be derived from the PatientAdministration System and Biostatistical Activity or by conducting focused group studies with representative samples of the membership of the USCC.

Recommendation 4: Regulatory changes

I recommend AR 600-63 be changed to specifically address the cadet members of the USCC and should add Safety and Accident Prevention as specific elements in the regulation. Secondly, the USMA Organization and Functions manual should specifically address the functions of the MEDDAC Commander and the DENTAC Commander as members of the installation Commander's special staff. Finally, the installation Directorate of Personnel and Civilian Activities should seek the creation of and approval of a supplement to the Army Regulation that tailors health promotion to the local command needs. This supplement should address the

specific needs of the cadet members of the USCC since they are the primary mission of the USMA.

Recommendation 5: Health Promotion Council Actions

As the USMA HPC has not yet met, the researcher was unable to present the developed models to the members of the HPC. However, the HPC should consider the models as developed, keeping in mind the dynamics and challenges involved in starting a health promotion program.

Although it is beyond the scope of this thesis, it would behoove the HPC to place the same emphasis on, and use the same process in, the development and implementation of like models for other target populations. Keeping in mind that the function of a university "is to provide an atmosphere and physical environment in which the students have an opportunity to improve their knowledge, skills, and attitudes" the HPC must strive to apply this function to health promotion (Hettler, 208).

Conclusion

A conclusion implies an ending. It is difficult to talk about an ending when the purpose of the paper was to act as a beginning by developing a model for an

implementable health promotion program. The models were not designed to be either all-encompassing or a detailed solution for the USCC in establishing a health promotion program for the Corps of Cadets. Rather, the intent was to act as a catalyst. It is felt that the health promotion program management process model, along with the resource models, accomplished this. As the developed management model is a systems model, it does not in itself meet the requirements that are prescribed by regulations. However, the need to ensure compliance with established guide times was emphasized throughout the course of the paper. Efforts were made to specifically address, at appropriate times, various pertinent requirements. In short, the systems model is designed to act as a catalyst of action for the HPC. It is up to the members of the HPC to ensure the letter and the intent of regulations are carried out.

Certainly, studies such as this one uncover more questions than answers. Despite this, there is nove that some substantial information will be contributed to the field. Sy seriously considering the models presented and implementing the recommendations offered herein, the HPC will be starting a process that will provide students with opportunities to learn about the benefits of increasing their wellness activities and will create an environment that encourages the members

of the USCC to pursue the wellness lifestyle.

The investment of resources into such an undertaking is no guarantee that the program will have any effect at all. One view is that "people are not nearly so interested in self-protection" as one might like to think (Weinstein, 276). In spite of this view, in an imperfect world, one can not afford to wait for perfect solutions. Whether this model and the proposed recommendations will create positive change remains to be proven. Ultimately, people will influence people. Why not try to make things petter?

Appendix A

The USCC Health Promotion Resource Model

A	PRIMARY SECONDARY	Safety and Accident Prevention Alcohol and Drug Abuse Antitobacco Counselling Suicide Prevention Spiritual Fitness Stress Management Human Sexuality Physical Fitness Nutrition Weight Control Hypertension Oral Health	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	>	Lewis	73		
		USCC HEALTH PROMOTION RESOURCE MODEL	Develops within each cadet the commitment essential to the profession of arms by focusing on intellectual, military, physical, moral/ethical, and social development.	·Provides broad basic military education to cadets.	·Provides an extensive and intensive physical education program.	•Serves as staff consultant for USMA-wide psychological program to the Commandant of Cadets.	·Provides group and individual counseling services to USCC for problems of stress adjustment, human effectiveness and emotional disturbance.	'.Conducts periodic cadet surveys.	
		USCC ORGANIZATIONAL ELEMENT	Commandant, USCC			Cadet Counseling Center			٠

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		USCC HEALTH PROMOTION RESOURCE MODEL		·Input for annual USCC Master Training Schedule.	•Develops and coordinates a comprehensive four-year professional development program for the cadets.	·Identifies specific education and training objectives.	Oversees development, coordination, scheduling and evaluation of USCC Human Relations Training System Programs (to inc.ude Alcohol and Drug Education, Human Sexuality, Rape Prevention and Sexual Harassment).	
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Appendix B

The USMA Health Promotion Resource Model

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		USMA HEALTH PROMOTION RESOURCE MODEL	FUNCTIONS	•Formulates and executes policies, procedures, and programs required to accomplish the assigned USMA mission.	·Provides special assistance to the Superintendent for strategic planning in support of the long range goals of the Military Academy.	•Advises and assists the Superintendent in all matters pertaining to religion at USMA and the spiritual development of cadets.	•Directs preparation and publication of the post paper.	•Provides command information news and entertainment programming for broadcast on post radio and television.	•Prepares programs and brochures for varsity sports.	•Furnishes technical advise in the area of new training materials and devices.
		USMA	ORGANIZATIONAL ELEMENT	Superintendent, USMA	Special Assistant for Strategic Planning	Chaplain, USMA	Public Affairs Office			· •

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		USMA HEALTH PROMOTION RESOURCE MODEL	MENT FUNCTIONS	•Supports USMA in policy formulation, ment operational planning, resource programming and program execution of Information Management Areas (IMA).	•Develops, coordinates, operates, and maintains integrated automated data systems in support of academy management.	·Provides advice to command in IMA matters to improve effective use of IMA resources.	·Operates command's data processing activities, communication, and visual information and instructional technology facilities.	·Director serves as principal staff officer to advise and assist the Superintendent in management of and planning for command management information systems.	

Directorate of Information Management

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		USMA HEALTH PROMOTION RESOURCE MODEL	L ELEMENT FUNCTIONS	<pre>:ems</pre>	•Performs systems analysis and programing for all approved USMA-unique aministrative applications and information systems.	·Schedules execution of USMA-unique management information systems for optimum computer resource user and usage satisfaction.	•Maintains, modifies, and update systems software to include network interface software.	·Performs data base administration to include data base analysis, design, management and quality assurance.	Ensures security accreditation of the computer facilities.	·Proponent of USMA Information Management Steering Committee.	•Designs and implements data bases to support all organizations and activities.	
			ORGANIZATIONAL	Computer Systems Division								

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·Maintains and interprets accident data.

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			USMA HEALTH PROMOTION RESOURCE MODEL		FUNCTIONS	·Develops, plans, and implements policies of the Army Morale Support Activities Program and supervises the operation of the following welfare, recreation and morale programs: Library, Physical Activities, Community and Skill Development Activities, and special recreational projects.	Administers the Alcohol and Drug Abuse Control program.	Develops policies and programs for the prevention and control of alcohol and drug abuse.	Assesses the alcohol and drug situation in the West Point Community and recommends corrective action.	•Coordinates programs of alcohol and drug abuse prevention and rehabilitation.	•Develops and maintains a religious and character development program for non-cadet personnel at USMA.	
			USMA		ORGANIZATIONAL ELEMENT	Morale Support Division	Human Resources Division, DPCA	Alcohol and Drug Abuse Counseling Center			Post Chaplin	

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		TOTOM BOUNDED WOTHOMODE UPINET AMOUNT	30000000000000000000000000000000000000	NT FUNCTIONS	*Enforces laws, regulations, orders and local command policies.	·Assists superintendent in establishing priorities for institutional research to include data collection and analysis.	Establishes priorities regarding use of resources to conduct research.	.Serves, with DPCA, as principal advisor to superintendent with respect to Army Health Promotion Program.	·Provides equipment and healthcare providers to administer and interpret Health Risk Appraisal, teach classes, and compile statistics to support health promotion program.	·Uses ad hoc or subcommittees to address specific issues involving health promotion in the Medical Treatment Facility.	•Develops protocols for identification and management of suicidal patients.	÷ .
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Directorate of Resource Management

Provost Marshal

Commander, MEDDAC

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Appendix C

Health Risk Appraisail Respondent Analysis

FOR UIC OR PORTION OF UIC - ASSHERP

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BREAKDOWNS ON HEALTH BISKS BY AGE AND SEX -- 17 HOVEMBER 1987

PENALES BRALTH RISK 25 OR LESS 26 - 3435 - 39 40 OR MORE WEIGHT OVER ARMY STANDARD 461 387 2. RARELY/WEVER EAT TWO WELL BALANCED MEALS PER DAY
3. DAILY/ALMOST DAILY RAT FOODS HIGH IN SATURATED FATS
4. DAILY/ALMOST DAILY RAT POODS HIGH IN SODIUM
5. DON'T GET ARROBIC EXERCISE 3+ TIMES PER WEEK
6. RARELY/WEVER EXERCISES FOR MUSCLE STRENGTH 131 131 14% 14% 17% 147 10% 97 01 947 75ž 1007 751 251 01 01 897 202 207 SYDKE CIGARETTES 24% 8. SMOKE 2+ PACKS PER DAY
9. SMOKE A PIPE OR CIGAR
10. USE SMOKELESS TOBACCO
11. CONSUME 13 OR MORE ALCOHOLIC DRIVKS PER WEEK
12. CONSUME 30 OR MORE ALCOHOLIC DRIVKS PER WEEK
13. DRIVE UNDER THE INFLUENCE OF ALCOHOL 51 01 01 31 OI 01 01 01 ÕĨ 37 07 07 197 577 07 147 57 107 07 ŎI 182 01 01 01 01 01 01 26% 14. RIDE WITH DRIVER UNDER THE INFLUENCE OF ALCOHOL
15. SOMETIMES/WEVER WEAR SEATBELTS
16. EXHIBIT FOUR OR MORE INDICATORS OF STRESS
17. SERIOUSLY CONSIDERED SUICIDE IN THE LAST TWO YEARS
18. DON'T HAVE PEOPLE TO TURN TO IN BAD TIMES
19. SLEEP (5 OR)9 HOURS PER NIGHT 601 01 111 31 61 OI 137 20. RAVE HIGH BLOOD PRESSURE 97 20. HAVE HIGH BLOOD PRESSURE
21. HAVE BORDERLINE BLOOD PRESSURE
22. HAVE A BLOOD CHOLESTEROL LEVEL OVER 200MGZ
23. DON'T DO BREAST/TESTICULAR SELF EXAM MONTHLY
24. WOMEN WHO TAKE BIRTH CONTROL PILLS AND SMOKE
25. WOMEN WHO HAVEN'T HAD A PAP TEST IN PAST TWO YEARS 91 14% 26% 25% 291 717 881 67% 01 191 OZ OZ 171 251 WELLHESS CHECK SCORE (AVERAGE) 78.9 0.0 0.0 CHOLESTEROL LEVEL (AVERAGE) 237.7 249.2 233.1 BLOOD PRESSURE - SYSTOLIC (AVERAGE) 114.5 112.5 117.7 BLOOD PRESSURE - DIASTOLIC (AVERAGE) 73.8 72.8 73.3 HUMBER OF CASES (BY SUBGROUP) 35 2 21

Health Risk Appraisal Respondent Analysis

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[.] TO PROTECT CONFIDENTIALITY, PERCENTAGES ARE SUPPRESSED WHEN A GROUP CONTAINS 5 OR FEWER RESPONDENTS

^{. . .} U.S. ARMY WELLESS CHECK DEVELOPED WITH THE COOPERATION OF THE RHODE ISLAND DEPARTMENT OF HEALTH . . .

FOR UIC OR PORTION OF UIC - ASSESSE

PERCENT ANALYSIS BY QUESTION -- 17 NOVEMBER 1987

COEST	CONTENT	RESPONSE	COURT	PCT.	QUEST.	CONTENT	resporse	COUNT	PCT.
1	frequency of eating two well balanced meals per day?	daly/ala 3-5/ek (3/ek rare/nyr SKIPPED	18 12 7 5	40.01 30.01 17.51 12.51	9	Do you smoke cigarettes now?	yes quit(6mo quit)6mo never SKIPPED	8 1 9 22 0	20.0X 2.5X 22.5X 55.0X
2	Frequency of eating foods high in saturated lats?	daly/alm 3-5/mk (3/mk rare/nyr SKIPPED	9 21 10 0 0	22.5X 52.5X 25.0X 00.0X	10	Frequency of daily cigarette smoking?	dn't sak (1/2 pk 1/2-1 pk 1-2 pk 2+ pk SKIPPED	32 3 2 2 1	80.01 7.51 5.01 5.01 2.51
3	Frequency of eating foods high in sodium each meek?	daly/alm 3-5/wk (3/wk Pare/nyr SKIPPED	4 20 12 0	10.01 10.01 50.01 30.01	11	How long have you smoked?	dn't sak (1 year 2-4 yrs 5-10 yrs)10 yrs	31 1 1	77.51 2.51 2.51 2.51 2.51 15.02
4	Frequency of eating high fiber foods each week?	daly/alm 3-5/wk (3/wk Pare/nyr SKIPPED	16 14 6 4	40.0X 35.0X 15.0X 10.0X	12	Want to stop smoking?	dn't sak quit now quit sad no	33 0 6	82.51 00.01 15.01 2.51
5	How many hours of sleep do you get each night?	(5 hrs 5-6 hrs 7-8 hrs 9 hours)9 hrs SKIPPED	0 18 22 0 0	00.01 45.01 55.01 00.01 00.01	13	Smoke a pipe or cigar?	SKIPPED never (daily daily SKIPPED	6 40 0 0	100.0X 00.0Z 00.0Z
6	Frequency of aerobic exercise per week?	3+/wk 1-2/wk rare/ovr SKIPPED	7 11 22 0	17.52 27.52 55.02	14	Use smokeless tobacco?	never (daily daily SKIPPED	40 0 0	100.0Z 00.0Z 00.0Z
7	Frequency of muscle strength improvement exercises?	3+/wk 1-2/wk rare/nyr SKIPPED	8 4 30 0	15.01 10.01 75.01	15	Number of days per week at least one drink of alcohol?	dn't drk 6-7 days 3-5 days 1-2 days	13 6	32.51 00.01 7.51 15.01
8	Physical condition that limits or prevents exercise?	yes no Skipped	38 0	5.01 95.01			SKIPPED	18	45.0X

---> BURBER OF RESPONDENTS = 40 (---

Health Risk Appraisal Respondent Analysis

COUNTS AND PERCENTAGES 17 HOVENDER 1987 PAGE 2									
\$0E51	***************************************	RESPONSE	COUNT		QUEST		RESPONSE	COURT	PCT.
-16	subser of drinks in a typical meek?	dn't dri 4 or (5-12/mk 13-20/mk	19 3	42.51 47.51 7.51 2.51	25	Have people to turn to for support in bad times?	no SKIPPED	38 2 0	5.07 5.07
		21-30/mk >30/mek SKIPPED	0	00.02	27	Have considered suicide at least once in last 2 years?	yes no Skipped	39 0	2.51 97.51
17	Wear seatbelts in vehicle?	alwy/arl sometime rare/myr SKIPPED	40 0 0	100.0X 20.00 10.00	28	Have experienced a move or PCS in last year?	yes no SKIPPED	37 0	7.51 92.51
18	Ever drive after drinking?	never rarely sometime	30 10 0	75.0% 25.0% 00.0%	29	Have been separated from home base 3 weeks + in last year?	yes no SKIPPED	37 0	7.51 92.51
19	Ever ride with a driver who	always SKIPPED never	0 0 18	00.07 ***** 45.07	30	Informed of high or borderline BP in last 5 years?	no yes,high borderin SKIPPED	32 4 4 0	80.0X 10.0X 10.0X
	has been drinking?	rarely sometime always SKIPPED	19 3 0 0	47.52 7.52 00.02	31	Now being treated for high blood pressure?	yes no SKIPPED	- 33 0	17.57 82.57
20	Moving violation in last two years?	yes no SKIPPED	12 28 0	30.01 70.01	32	What is your blood cholesterol level?	(200 mg 200-250)250 mg dn't rem	2 6 4 12	5.01 15.01 10.01 30.01
21	Serious personal loss or mis- fortume in last year?	yes no SXIPPED	19 21 0	47.51 52.5%			NVF meas SKIPPED	16	40.02
22	Major pleasant change in the past year?	yes no SKIPPED	19 21 0	47.5% 52.5%	33	Discomfort above waist?	no SKIPPED	11 29 0	27.51 72.51
23	Eave trouble going to sleep or do not rest well?	yes no SKIPPED	7 33 0	17.5% 82.5%	34	Do testicular or breast self-exam?	no occaisly monthly SKIPPED	14 15 11 0	35.07 37.51 27.57
24	Repeated periods of depression in last year?	no sometime often SKIPPED	29 10 1 0	72.51 25.01 2.51	35	Family history of heart attack before age 60?	no yes don't kn SKIPPED	19 16 5 0	47.5% 40.0% 12.5%
25	Worries that interfered with daily life in last year?	sometime often no SKIPPED	20 3 17 0	50.01 7.51 42.51					

---> NUMBER OF RESPONDENTS = 40 (---

Health Risk Appraisal Respondent Analysis

FOR UIC OR PORTION OF UIC - ASSECHP

COUNTS	AID	PERCENTAGES	17	HOVEMBER	1987
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PAGE 3 QUEST. CONTENT RESPONSE COUNT PCT. QUEST. CONTENT RESPONSE COUNT PCT. Family history of stroke before Yemales: Breast examination in DO yes age 60 ...? yes don't kn SKIPPED 17.5% past year ...? 22.97 B no ż 5.0% SKIPPED ō **** Females: Take birth control pills...? 705 11.42 16 Family history of high blood 40.0% סם 88.67 no SKIPPED yes don't kn SKIPPED pressure ...? 16 40.0% 8 20.0% What is your marital status...? married 26 65.0% separted 2.5% 1 Family history of diabetes...? 57.5% 20.07 DO divorced 8 yes don't kn SKIPPED 15 37.5% widowed 5.0% single SKIPPED 10.02 ***** 0 What is your sex? male 12.5% 20 What is your eligibility active 5.0% 00.07 35 female 87.5% status...? act/bas SKIPPED 0 fam/act 104 00.GZ retired Females: PAP test in last 29 82.9% 17.1% yes fam/reti 10.01 2 years ... ? 33 DO civ empl 82.51 SKIPPED 0 **** 00.0Z other SKIPPED

Health Risk Appraisal Respondent Analysis

^{---&}gt; NUMBER OF RESPONDENTS = 40 <---

^{* * *} U.S. ARMY WELLMESS CHECK DEVELOPED IN COOPERATION WITH THE RHODE ISLAND DEPARTMENT OF HEALTH * * *

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